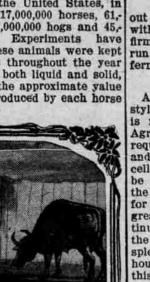
This is the hope of the Department of strain that will be a valuable acquisi-Agriculture. The Department has been tion to the cattle men of the Southworking on the problem for some west. time, and it has almost been proved to the satisfaction of officials that the tick which causes the fever can be eradicated from a pasture simply by keeping cattle out of that pasture. The quently to all meat consumers. tick is not a herbivorous insect, and it will die out if the pasture is kept free of cattle. It is believed that if one pasture on a farm is always kept free of cattle over what might be termed the life period of the tick, it corn or a load of some green crop for will furnish perfectly safe pasturage a dollar bill. Yet there are thousands for uninfected animals in case fever of agriculturists all over the country breaks out in the rest of the herd.

culture has no right to go into a State yard manure for \$1 a load. Others and enforce the free pasturage policy, are wasting the most valuable constitu and the matter cannot be, or at least is not, always dealt with satisfactorily by State officials. But in cases where the Department is officially invited to come into a State and take charge of round numbers, 17,000,000 horses, 61, cleaning it up, it is quite ready to do 000,000 cattle, 47,000,000 hogs and 45, so. Tentative arrangements have allow, been made for this work with shown that if these animals were kept the authorities in some States, and it in stalls or pens throughout the year

### The Manure Pit.

Where is the wise farmer who would sell to his neighbor a load of his finest who are doing practically this very Of course, the Department of Agri. thing when they dispose of their barnents of the manure they save. The manure produced on the farm is its most valuable asset.

There are in the United States, in is believed that it will be quite pos-sible to stamp out the fever and al-low the free interstate transportation of the manure produced by each horse



CATTLE INFECTED WITH TEXAS FEVER.

of cattle, which is now prohibited. The annually would be \$27, by each head of saving in money and the convenience cattle \$19, by each hog \$12 and by to shippers of this arrangement can each sheep \$2. The fertilizing value easily be understood.

## To Introduce Cattle from India.

While this quarantine and extirpation work is going on, a similar experiment on different lines directed to the same end will soon be under way. There have been imported to some of the Texas ranges specimens of the Indian sacred cattle, and it has been found that they were immune to the Texas fever. Apparently there is an oil in the skin that is repugnant to the tick. At any rate they will not harbor the parasite. The half-bloods and even animals containing but one-six
even animals containing but one-six
tradian blood have been supported to the value of manufacture of the value of manufacture of the manufacture teenth part Indian blood have been found immune, and they make just as good beef cattle as can be found.

There are very stringent laws against the importation of foreign \$750,000,000. stock into this country without thorough examination and quarantine; therefore it is risky to import stock from so far away as India without productiveness of his land, it is es-Mr. A. S. Borden of Pierce, Tex., has arranged, however, with the Agricultural Department to make a large importation of the immune Indian cattle, and has already left for British ligent conservation of the barnyard India to pick them out. The Department of Agriculture will send a special veterinary after him, and the first clal veterinary after him, and the first blipment of about 100 head will be the time-honored practice of piling to the fact that these structures have look in their direction, to my horror.

of all the manure produced would, therefore, be for horses, \$459,000,000; cattle, \$1,159,000; hogs, \$564,000,000; and sheep, \$90,000,000, or a total of

\$2,272,000,000. These estimates are based on the values usually assigned to phosphoric acid, potash and nitrogen in commercial fertilizers, and are possibly somewhat too high from a practical standpoint. On the other hand, no account is here taken of the value of manure generally conceded that at least onethird of the value of manure is lost by present wasteful management or a total loss to the country of over

# Return Full Value to the Soil.

If a farmer desires to maintain the especial provisions for its examination. sential that the amount of potash, Mr. A. S. Borden of Pierce, Tex., has phosphoric acid and nitrogen removed



RYE GROWN ON WELL MANURED LAND, TYPICAL CROP WHERE MANURE IS WASTED.

perhaps than Texas fever.

examined before they are shipped, and manure in the open air, exposing it to then quarantined on one of the small leaching by rains and fermentation by islands off the gulf coast till it is de- hot mid-summer suns, and adopt ratermined that there is no danger of tional scientific methods. He also hesi- periments have shown that the influ- away, and for a day or two we did our their bringing into this country some tates to incur the necessary expense ence of manure may be perceptible own cooking. strange bovine affliction even worse of building suitable receptacles for the twenty years after application. It di-After the animals have been thor- ing that this expense is greater than the soil and must be returned to it oughly proven, they will be introduced it really is. Manure is considered a if productiveness is to be maintained. In less than half a minute, and two among the Texas herds, and it is hoped waste and it is hard for him to put In many cases it has been demon-miles in one minute.

into practice the new idea that the strated that the value of the manure manure should be as carefully preserved from unnecessary loss, as largely, if not entirely, the profit of should any other farm product, after feeding. There are sound, scientific he has for twenty years stored the reasons for the high esteem in which farmyard manure under the eaves upon farm manure is held. It contains all the slope which forms one border of the fertilizing elements required by the running brook.

Experiments made by various Govrnment experiment stations show that fertility. It supplies nitrogen, phos the construction of sheds or covered phoric acid and potash, and it also renyards for the protection of manure is ders the stored-up materials of the well worth while. The manure from soil more available, makes it more frithe horse and cattle stables and the able and warmer, and enables it to

obtained in cattle feeding represents feeding. There are sound, scientific plants in quickly available forms that insure plentiful crops and permanent



THE WASTE OF BARNYARD MANURE.

out evenly over these yards, covered with coarse litter, and the whole kept firmly packed by allowing animals to run over it, thus preventing injurious fermentation.

## To Save All the Fertility.

more elaborate and expensive style of covered yard, a plan for which is furnished by the Department of Agriculture, provides not only for the required protection of both animals and manure, but also affords an excellent grain chamber where feed can be stored for convenient use. Under the side roofs is also afforded a chance for the storing of small tools and a great variety of articles that are continually in the way when lying about the farm buildings. It also provides splendid protection to animals when housed at night during the summer, this roof protecting them from heavy showers in the night and affording good chance for exercise in the winter, as all the sides, except that toward the south, can be protected against cold winds through temporary boarding.

Many stables are so situated that by adding a cheap lean-to, a manure "pit" is easily produced. The out-side boarding of the lean-to should us would have defended from all harm be, for a part of the way at least, put at any risk, horizontally and hung in the form of the outside of the building.

# Rattlesnake Den.

We were lumbering in central Penn sylvania during the summer of 1870, our portable steam mill standing in a piece of woodland, near a small stream and within a short half mile of a rocky ledge, known as "Rattle snake Den.

During the hot days, rattlers were constantly met, and "Harry," who drove the daily stage through the "Narrows," had won quite a local reputa-tion from having killed more than a score since the melting of the snows.

The pretty young wife of our en-gineer had charge of the boarding house, and after the noon meal was served, the dishes cleared away and the house put in order, she was accustomed to bring her sewing into the shade near our Planer, which was the cleanest and coolest part of the mill, and sit for an hour or two before commencing the preparation of the sup-

She was a sweet, attractive sight that hot afternoon of which I speak, her beautiful arms and neck rivalling the whiteness of her simple frock, the only female in our camp of rough, us would have defended from all harm

Some of the men were rolling up flat doors, so that the manure can be the logs on the skid, some sawing them easily loaded on a wagon standing on into boards, others carrying the boards to the yard, while my partner, Manuel A great number of farmers who have Motz, was personally tending to the



to the fact that these structures have look in their direction, to my horror, generally been loosely put together, saw an immense rattler, coiled within allowing a free circulation of air, a foot or less of May's back, his body this account barn cellars, so common shining like sparks of fire. I was litvantages as receptacles for manure, though but twenty feet away, it seemed swine to "work over" the manure in these cellars is a wise one, since it Motz must have seen the snake at the mixes the manure and keeps it well same moment, for I heard his voice this system of storage is probably the perfectly still." As he spoke he most perfect practiced. grabbed from a beam the bull whip,

# Manure the Best Fertilizer.

fective means at the disposal of the tile, as if striking at a fly. I rememaverage farmer to permanently im-prove his soil. No other fertilizer pos-was, why didn't he dash forward and sesses to so great a degree the power at least attract its attention! But I of restoring worn out soils to product looked again and the body lay quivtiveness and giving them lasting fer-tiveness and giving them lasting fer-tility. It provides actual fertilizing neck. constituents; it improves the physical properties of the soil, increasing the cheerily, "but its easy when you know amount of humus, which is generally the trick." deficient in worn soils, bettering its texture and increasing its water-ab- obedient till the danger was past, and sorbing and water-holding power. Ex- then, womanlike, she quietly swooned storage of manure, frequently assum- rectly represents fertility drawn from

which has dried out the manure. On swaying to and fro, and his angry eyes in New England, possess decided ad- erally paralyzed with terror, for The common practice of allowing as if the blow would be struck bepacked and moist. In fact, if these clear and sharp above the roar of all cellars are provided with impervious the machinery, "May, there's a rattlebottoms to hold the liquid manure, snake that will strike if you move; sit which we used for our ox team, and with the slightest movement of his Barnyard manure is the most ef- powerful wrist snapped it at the rep-

May had been perfectly cool and

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